Performance Data Sheet

AWG5519EXN

General Information

Model	AWG5519EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4290	3770					
	Watts	838	841					
	Amps	4.19	3.98					
	Lb/h	54.9	50.6					
-10	Btu/h	5640	5030	4380				
	Watts	921	921	932				
	Amps	4.42	4.23	4.16				
	Lb/h	72.0	67.0	61.3				
-5	Btu/h	7070	6360	5620	4870			
	Watts	1000	999	1010	1020			
	Amps	4.67	4.49	4.43	4.46			
	Lb/h	89.9	84.2	77.7	70.6			
0	Btu/h	8590	7780	6940	6090	5230		
	Watts	1070	1070	1080	1100	1120		
	Amps	4.92	4.77	4.73	4.77	4.87		
	Lb/h	109	102	95.1	87.2	78.6		
5	Btu/h	10200	9310	8360	7400	6430		
	Watts	1140	1140	1160	1170	1190		
	Amps	5.15	5.05	5.04	5.11	5.22		
	Lb/h	129	122	114	105	95.6		
10	Btu/h	12000	11000	9900	8820	7730	6660	5620
	Watts	1200	1210	1230	1250	1270	1300	1310
	Amps	5.38	5.32	5.35	5.45	5.58	5.73	5.85
	Lb/h	150	142	134	124	114	103	91.3
15	Btu/h	13900	12700	11600	10400	9150	7950	6780
	Watts	1240	1270	1290	1320	1360	1380	1400
	Amps	5.58	5.58	5.66	5.80	5.97	6.14	6.28
	Lb/h	172	164	155	145	134	122	109
20	Btu/h	15900	14700	13400	12000	10700	9370	8070
	Watts	1280	1320	1350	1400	1440	1470	1500
	Amps	5.74	5.81	5.95	6.14	6.36	6.56	6.73
	Lb/h	196	188	178	167	155	142	129

25	Btu/h	18100	16700	15300	13800	12400	10900	9480
	Watts	1310	1360	1410	1460	1520	1560	1600
	Amps	5.86	6.01	6.22	6.48	6.74	6.99	7.20
	Lb/h	222	213	202	191	178	165	151
30	Btu/h	20500	19000	17400	15800	14200	12600	11000
	Watts	1320	1390	1460	1530	1590	1660	1710
	Amps	5.93	6.17	6.46	6.79	7.11	7.42	7.67
	Lb/h	250	240	229	217	204	189	174
35	Btu/h	23100	21400	19700	18000	16200	14500	12800
	Watts	1320	1400	1490	1580	1670	1750	1810
	Amps	5.94	6.27	6.66	7.06	7.47	7.84	8.14
	Lb/h	279	269	257	245	231	216	200
40	Btu/h	25900	24100	22200	20400	18500	16600	14700
	Watts	1300	1410	1520	1630	1740	1830	1920
	Amps	5.88	6.32	6.80	7.30	7.79	8.23	8.61
	Lb/h	311	300	288	275	260	245	228
45	Btu/h	28900	26900	24900	22900	20900	18800	16800
	Watts	1260	1400	1540	1670	1800	1920	2030
	Amps	5.74	6.30	6.89	7.49	8.07	8.60	9.05
	Lb/h	345	334	322	308	293	276	259
50	Btu/h	32100	30000	27900	25700	23500	21300	19000
	Watts	1210	1380	1540	1700	1860	2000	2130
	Amps	5.51	6.20	6.91	7.62	8.31	8.93	9.47
	Lb/h	382	371	357	343	327	310	292
55	Btu/h	35600	33300	31000	28700	26300	23900	21600
	Watts	1140	1340	1530	1720	1900	2080	2230
	Amps	5.19	6.02	6.86	7.69	8.48	9.21	9.85
	Lb/h	422	409	396	381	365	347	328

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.161031E+04	1.802641E+03	1.329768E+01	1.209966E+02
C2	4.595520E+02	2.180118E+00	-6.490462E-02	4.461371E+00
C3	2.158079E+01	-2.122512E+01	-2.182462E-01	3.590593E-01
C4	3.018526E+00	-5.723402E-01	-1.721675E-03	1.793633E-02
C5	-1.609786E+00	2.233651E-01	2.079272E-03	-2.607037E-03
C6	-9.801182E-01	1.955141E-01	1.788240E-03	-7.373182E-03
C7	1.871594E-02	-1.601671E-03	-1.175289E-05	2.105740E-04
C8	-1.058094E-02	5.373390E-03	1.963396E-05	4.602316E-05
C9	-2.480905E-03	-9.585730E-04	-8.208430E-06	-6.086490E-05
C10	2.976674E-03	-5.521003E-04	-4.623907E-06	1.196838E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature